ABSTRACT

4-SUBSTITUTED QUINOLINE DERIVATIVES, METHOD AND INTERMEDIATES FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

The invention relates to 4-substituted quinoline compounds of general formula:

$$\begin{array}{c|c} X_1 & X_3 & X_2 \\ X_1 & X_3 & X_2 \\ X_1 & R_1 \\ \end{array}$$

$$\begin{array}{c|c} CH_2 & CCH_2 & CCH_2 \\ R_3 & CCH_2 & CCH_2 \end{array}$$

$$(1)$$

which are active as antimicrobials, in which:

 X_1 , X_2 , X_3 , X_4 and X_5 is C-R'₁ to C-R'₅ respectively, or alternatively at most one represents N,

Y represents CHR, CO, CROH, CRNH₂, CRF or CF₂, R being a hydrogen or alkyl, m is 1, 2 or 3 and n is 0, 1 or 2, Z is CH₂ or Z is O, S, SO, SO₂ and, in this case, n is equal to 2, R₂ is -CO₂R, -CH₂CO₂R, -CH₂-CH₂CO₂R, -CH₂OH or -CH₂-CH₂OH, wherein R is as defined above,

R₃ represents phenyl, heteroaryl or alk-R°₃, where alk is alkyl and R°₃ represents various groups, where appropriate containing oxygen, sulfur or amine, in their enantiomeric or diastereoisomeric forms or their mixtures, and/or where appropriate in the syn or anti form or their mixtures, and their salts.